



INVESTOR · COUNSEL · ENTERPRISE BRIEFING · MAY 2026

# Hive IP Intelligence

Agent-to-agent infrastructure  
for the \$20B patent industry.

Mint your IP agent. Keep 80%.

Bloomberg Terminal for patent and innovation risk.

**\$20.5B**

Global IP services TAM

**8**

Product agent stack

**80% / 20%**

Attorney mint split

**Prepared by** Hive Civilization

**For** Attorneys (Vitruvian IP Law) · Investors (NVIDIA Inception, VCs) · F500 IP leaders

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## SECTION 01 · EXECUTIVE SUMMARY

# Why Hive IP Intelligence, and why now

Patent and innovation risk is one of the largest professional-services markets still running on manual, junior-associate workflows. Hive collapses those workflows into a coordinated multi-agent system that signs, settles, and remits — letting attorneys mint their own AI agent and keep 80% of every scan.

- 01 \$20.5B and growing.** IP services is a **\$20.5B market** growing at ~3.5% CAGR to roughly \$30B by 2035 (Market Research Future).
- 02 \$12.3B is directly addressable.** Of that, **IP law-firm services = \$12.32B in 2025** (Business Research Insights) — the segment Hive's attorney-mint product hits head-on.
- 03 The legacy unit economics are broken.** Today: manual, junior-associate-driven, **\$10K-\$50K per FTO opinion, 4-6 weeks** (LeanLaw, Finnegan).
- 04 Hive's unit economics replace them.** Autonomous agent-to-agent infrastructure: **5 minutes, \$499, signed receipt**, attorney mints the agent and **keeps 80%** of every scan.
- 05 Pro forma: \$5M Y1 to \$60M Y3. 5% capture of US FTO-class scans × \$499 × 20% Hive vendor cut = \$5M Y1 ARR;** the full 8-product stack projects to \$60M Y3 ARR. Pro forma is on page 8.

**The bet.** Patent and innovation risk is too large, too important, and too expensive to remain a manual professional-service business. Hive is the A2A workflow layer that the law firms, the corporate IP groups, and eventually Patsnap, Anaqua, and Westlaw all buy from.

## SECTION 02 · STATUS QUO

# Why patents are stuck on manual workflows

There are **~7.6 million US patents currently in force** and roughly **325,000 new US utility applications filed per year** (USPTO Patents Dashboard; PatentPC 2024). Every commercial product launch sits inside this thicket. The industry's answer — a freedom-to-operate opinion — is structurally a high-end professional service: junior associates pull search results, mid-level associates build claim charts, partners write the opinion. The math has not changed in 30 years.

## The manual workflow

<b>01 Search</b>	Junior associate runs Boolean queries across USPTO/EPO/Google Patents.
<b>02 Claim chart</b>	Each potentially relevant patent is mapped element-by-element to the product.
<b>03 Prosecution history</b>	File wrappers pulled and read for estoppel and Markman context.
<b>04 Litigation risk</b>	PTAB IPRs, district-court dockets, prior assertions reviewed.
<b>05 Opinion</b>	Partner drafts a written opinion of counsel — 20 to 60 pages, signed.

## The cost structure

Item	Today (manual)	Source
FTO opinion — typical range	\$10,000 - \$50,000	LeanLaw / Finnegan / Dickinson Wright
Turnaround	4 - 6 weeks	Practice guidance
Patent litigation damages (US, 2024)	\$4.3 billion	PatentPC 2024
Defense cost per case	\$700K - \$4M	Practice guidance
Result	FTO is economically rational — but practically too expensive to run on every product	—

**The gap.** An FTO is economically rational at \$700K-\$4M defense exposure per case — but at \$10K-\$50K per opinion, the FTO market is gated to roughly the top decile of product launches. Every other product ships exposed.

SECTION 03 · WHAT HIVE CHANGES

# Agent-to-agent patent infrastructure

Hive is **not a chatbot**, **not a search engine**, and **not an LLM wrapper**. It is a distributed legal-intelligence operating system: a swarm of specialized agents coordinating across the work a patent team actually does — search, compare, analyze, score, monitor, map claims, suggest design-arounds, evaluate litigation risk.

## From weeks to hours

	Legacy (manual)	Hive (A2A)
Search	Boolean queries, days	Concurrent multi-jurisdiction agents, minutes
Claim mapping	Junior associate by hand	8-model committee with per-element votes
Figures	Read separately, often skipped	Multi-modal: 5 of 8 panel members vision-capable
Case-law context	Partner experience	9 Markman anchors auto-applied to every claim
Provenance	PDF signed by attorney	Ed25519 + ML-DSA-65 signed receipt per scan
Turnaround	4 - 6 weeks	Hours, with audit-grade memorandum
Cost	\$10K - \$50K	\$499 entry; enterprise tiers to \$1M/yr

## What the swarm actually does

- **Multi-model committee.** 8 specialized LLMs vote per claim element; disagreement flags force human review where consensus drops below threshold.
- **Multi-modal ingest.** Patent figures are read alongside claim text — not parsed as PDF afterthoughts. Five of eight panel members are vision-capable.
- **Markman-aware.** 9 controlling claim-construction precedents (Phillips, Williamson, TriVascular, Mannesmann, Conoco, Warner-Jenkinson, Eagle Pharm., Cohesive, Allen Eng’g) are mined into every element read.
- **Recursive agent provenance.** Each scan is signed by a Hive-minted agent that was itself minted via a separate signed factory receipt. Ed25519 classical + ML-DSA-65 post-quantum.
- **Continuous monitoring.** Once a product is profiled, the agent watches new grants, publications, assignments, and PTAB filings 24/7.

## SECTION 04 · THE PRODUCT STACK

## Eight A2A products, one platform

Hive ships **eight coordinated A2A products**. Each can be sold standalone, but the compounding moat comes from the shared memory and accumulated scans across them.

Product	What it does	Price range
HiveFTO	Freedom-to-operate scan — signed audit-grade memorandum	\$499 → \$250K/yr
HivePrior	Prior-art discovery and invalidity mapping	\$299 → \$150K/yr
HiveClaim	Claim construction & element mapping with Markman audit	\$500 → \$50K + API
HiveWatch	Continuous monitoring across patents, publications, and litigation	\$499/mo → \$500K/yr
HivePortfolio	Portfolio intelligence — strength, gaps, and white-space mapping	\$5K → \$1M/yr
HiveLit	Litigation intelligence: PTAB, dockets, asserted-claim history	\$2K → \$500K/yr
HiveLicense	Licensing & royalty intelligence; comparable-rate analytics	\$1K → \$50K
HiveDesign	AI design-around generator — synthesized non-infringing variants	\$2K → \$25K + sub

**Designed to cross-sell.** A startup buys HiveFTO at \$499. The same scan seeds HiveWatch (\$499/mo) and HivePrior. Twelve months later the law firm advising that startup is on a HivePortfolio enterprise tier. Each product compounds the next.



## SECTION 05 · THE ATTORNEY-MINT MODEL

# Attorneys keep 80%. Hive keeps 20%.

Hive does **not** replace counsel. Hive does the **geometry**; the attorney does the **opinion**. The mint flow makes the attorney the brand on every scan they signed off on.

**01 Mint**

Attorney visits [thehiveryiq.com/ip/factory/](https://thehiveryiq.com/ip/factory/) and mints `did:hive:agent:lastname-fto-001`. 90 seconds. USPTO registration number captured. Brand assets uploaded.

**02 Scan**

Client (or attorney) triggers a scan. The minted agent emits a signed receipt (Ed25519 + ML-DSA-65) bearing the attorney's name, firm, and the agent's factory mint receipt.

**03 Bill**

Client pays Hive via card, ACH, or USDC. Hive holds funds, computes split.

**04 Remit**

**Hive remits 80% to the attorney within 24 hours** via ACH or USDC. Hive's 20% funds models, on-chain settlement, and enterprise sales.

## Why this works for the attorney

- **Attorney keeps billing relationship.** Hive is the methodology vendor; the client's engagement letter is with the attorney.
- **Attorney keeps brand.** Every receipt is co-branded; the attorney's name and USPTO reg number are on the cryptographic receipt.
- **Attorney keeps the opinion-of-counsel layer.** Hive emits a *directional screening*; the attorney converts it into a written opinion. The privilege boundary is preserved.
- **Hive keeps 20%.** That 20% funds the 8-model committee, the on-chain settlement layer, the enterprise sales motion, and the continuous-monitoring infrastructure.



## SECTION 06 · MARKET SIZING

# TAM, SAM, SOM — with the FTO-only math shown separately

Layer	Definition	Size	Source
TAM	Global IP law services (broad)	\$20.5B (2025) → ~\$30B by 2035 @ ~3.5% CAGR	Market Research Future
SAM	IP law-firm services (directly addressable by Hive)	\$12.32B (2025)	Business Research Insights
SOM Y1	Modest law-firm + startup capture (see pro forma p.8)	\$5M Hive ARR	Hive pro forma

## FTO-only math (bottom-up, before cross-sell)

Step	Input	Value
A	US utility applications filed per year	~325,000
B	Commercial-launch share (formal FTO trigger)	× 30%
C	Formal FTOs per year	= 100,000
D	Informal/landscape screen multiplier	+ 5× = 400K informal
E	Total addressable FTO-class scans per year	= 500,000
F	Hive capture (modest)	× 5%
G	Average price	× \$499
H	Gross marketplace volume	= \$12.5M GMV
I	Hive vendor cut	× 20%
J	Hive ARR — entry-tier FTO ONLY	= \$2.5M

**This \$2.5M is the floor.** It is the entry-tier FTO contribution *before* HivePrior, HiveWatch (recurring), HivePortfolio, HiveLit, HiveLicense, or HiveDesign cross-sell. The pro forma on page 8 builds the full eight-product stack on top of this.



## SECTION 07 · THREE-YEAR PRO FORMA

**\$5M → \$20M → \$60M ARR**

Three phases: **Year 1 Beachhead** (prove the attorney-mint motion plus enterprise pilots), **Year 2 Expansion** (law-firm workbench rollout, enterprise monitoring scale), **Year 3 Infrastructure Layer** (API embeds and marketplace transactions).

Phase / Year	Y1 Beachhead	Y2 Expansion	Y3 Infrastructure
Startup FTO / Direct SaaS	\$0.40M	\$2.0M	\$5.0M
Law Firm Workbench	\$1.50M	\$5.0M	\$12.0M
Enterprise Monitoring / Continuous	\$2.00M	\$8.0M	\$25.0M
Portfolio / Diligence / Litigation	\$1.00M	\$3.0M (Lit)	—
API / Infrastructure	\$0.25M	\$2.0M	\$10.0M
Marketplace / Agent Transactions	—	—	\$8.0M
<b>TOTAL ARR</b>	<b>\$5.15M</b>	<b>\$20.0M</b>	<b>\$60.0M</b>

**Assumptions (footnote)**

- Y1 SaaS line assumes ~800 minted attorneys × 200 scans/yr cohort × 20% Hive cut at \$499 blended ASP.
- Y1 Law-Firm Workbench assumes 30 boutique IP firms at ~\$50K ACV.
- Y1 Enterprise assumes ~12 design-ins (semiconductor, robotics, medical devices, AI infra) at ~\$165K ACV.
- Y2 model assumes 4× SaaS attorney expansion, AmLaw-200 workbench wins, and 50 enterprise customers.
- Y3 model assumes API embeds inside Patsnap, Anaqua, and 2 major docketing platforms; marketplace GMV = \$40M at 20% Hive cut.
- All numbers are **Hive net revenue** (post-attorney remit). GMV is materially higher.



## SECTION 08 · DISTRIBUTION

# Four channels, one A2A protocol underneath

**CHANNEL 01 Direct SaaS**

Startups, individual inventors, SMBs, Amazon sellers, hardware builders.

**Motion:** \$499 entry · self-serve · 80/20 mint by attorney partners

**CHANNEL 02 Law Firm Workbench**

AmLaw-200, boutique IP firms, litigation boutiques.

**Motion:** White-label or co-branded · \$25K-\$250K/yr ACV

**CHANNEL 03 API Infrastructure**

Embedded inside patent platforms, docketing systems, legal-ops tools, innovation systems, engineering PLMs.

**Motion:** Per-scan API metering · \$0.05-\$0.25/call wholesale

**CHANNEL 04 Enterprise**

Semiconductor, robotics, medical devices, automotive, aerospace, industrial manufacturing, AI infrastructure.

**Motion:** Continuous monitoring + portfolio intel + design-around as a single subscription

**The crossover.** A startup signs up direct (Channel 1), gets matched to a Hive-minted attorney, that attorney pulls their firm onto the Workbench (Channel 2), and the firm advises an enterprise client who eventually buys via API embed (Channels 3 and 4). All four channels feed the same A2A protocol and the same shared memory.



## SECTION 09 · STRATEGIC MOAT

# The moat is not the models — it is the workflow graph

Hive is **not** an LLM wrapper. The models are interchangeable; the moat compounds below them. Eight reinforcing layers:

- 01 Orchestrated A2A workflows.** Eight agents that pass intermediate state to each other under a deterministic protocol. Replicating just the orchestration takes 18+ months.
- 02 Historical memory across millions of scans.** Every scan returns to the graph. Prior reads inform every future read — invalidity arguments, Markman context, design-around library.
- 03 Proprietary legal graphing.** Patents linked to their assignees, family members, prosecution histories, PTAB challenges, and litigation outcomes — as a queryable graph, not a search index.
- 04 Claim-element relationships.** Element-level vectors capture how claim limitations co-occur across families, jurisdictions, and case-law constructions.
- 05 Litigation mapping.** Asserted-claim history per patent owner, win/loss by venue, settlement priors — feed back into HiveLit risk scoring.
- 06 Engineering similarity models.** Multi-modal embeddings learned across SSPCSD-class mechanical, semiconductor, biomedical, and software subjects — cross-subject generalization.
- 07 Recursive agent collaboration.** Every signed scan is itself a training input to the next agent generation. Provenance is preserved cryptographically end-to-end.
- 08 Continuous monitoring data.** Once the firm is monitoring, the data exhaust grows linearly with the customer base — a Bloomberg-style flywheel.

## SECTION 10 · THE BLOOMBERG COMPARABLE

# From \$499/scan to \$50K–\$500K/yr enterprise terminals

The right comp is not Westlaw, not Patsnap, not Anaqua. It is **Bloomberg Terminal**: a vertical workflow operating system that compounded one seat at a time into an unkillable industry standard.

	Bloomberg Terminal	Hive IP Intelligence (target)
Industry	Capital markets	Patent / innovation risk
Revenue	~\$10B/yr	Y3 target \$60M ARR; multi-\$B class moat
Seat / ACV	~\$30K/yr/seat	\$499 entry → \$50K–\$500K/yr enterprise
Seats	~325,000	50K IP attorneys + 5K corporate IP groups
Distribution	Bank desks (lock-in)	Attorney mint + law-firm workbench + API embed
Moat	Workflow + data + community	A2A workflow + scan memory + signed provenance

## Wedge and expansion

- **Enter at \$499/scan.** Self-serve, attorney-minted, signed receipt. Hard to refuse, hard to copy, lands inside law firms one attorney at a time.
- **Expand to \$5K/portfolio scans.** Small-firm and corporate IP managers buy HivePortfolio.
- **Expand to \$50K–\$500K/yr terminals.** AmLaw-200 + F500 IP groups subscribe to the full stack including continuous monitoring + design-around.
- **Become infrastructure.** Patsnap, Anaqua, Westlaw, and docketing systems eventually buy from Hive via API — the way every Wall Street trading app eventually pays Bloomberg for data.



## SECTION 11 · POSITIONING

# How to talk about Hive — and how not to

Language is part of the moat. The wrong framing invites bar-association scrutiny and scares attorneys; the right framing positions Hive where it actually sits — as infrastructure for, not a replacement of, counsel.

DON'T	DO
× "Replace lawyers"	✓ "Legal intelligence infrastructure"
× "Automated legal advice"	✓ "Attorney acceleration platform"
× "Robot attorney"	✓ "Patent risk operating system"
× "AI lawyer"	✓ "Autonomous patent analysis network"
× "No attorney needed"	✓ "Enterprise innovation intelligence layer"

**House rule.** Hive emits a directional screening. Hive does the geometry. The attorney writes the opinion. That sentence belongs on every external deck, demo, and press release.

## SECTION 12 · VALIDATION — WHAT WE HAVE ALREADY BUILT

# Not slideware. Signed, reproducible, audit-grade output.

- **8-model committee.** GPT-5.4, Claude Opus 4.7, Gemini 3.1 Pro, Kimi K2, DeepSeek V3.5, Grok-4, Mistral Large 3, Qwen3-Max — voting per claim element with consensus rules and disagreement flags.
- **Multi-modal claim-figure ingestion.** 5 of 8 panel members are vision-capable; patent figures are read alongside claim text.
- **9 Markman case-law anchors.** Phillips, Williamson, TriVascular, Mannesmann, Conoco, Warner-Jenkinson, Eagle Pharm., Cohesive, Allen Eng'g — applied to every element read.
- **Recursive agent provenance.** Each scan is signed by a Hive-minted agent that was itself minted via a separate signed factory receipt. Ed25519 classical + ML-DSA-65 post-quantum.
- **First privileged scan.** Public mechanical subject — Simpson Strong-Tie SSPCS wood-to-metal screw, public catalog data, 6 patents charted, 17-page audit-grade memorandum.
- **Cross-subject validation.** Cybertruck-style vehicle body, 6 patents, same methodology, same distribution shape — demonstrates the platform generalizes across mechanical domains.

**What this means.** Two privileged FTO memoranda are already on file with retained counsel. The same pipeline that produced them is what mints, signs, and remits in the attorney-mint product launching at [thehiveryiq.com/ip/factory/](https://thehiveryiq.com/ip/factory/).

## SECTION 13 · CITATIONS &amp; SOURCES

## Every number in this document, with a clickable URL

Source	URL	Used for
<b>Business Research Insights — IP Law Firm Services Market</b>	<a href="https://www.businessresearchinsights.com/market-reports/intellectual-property-ip-law-firm-services-market-118948">https://www.businessresearchinsights.com/market-reports/intellectual-property-ip-law-firm-services-market-118948</a>	\$12.32B IP law-firm services SAM (2025); used on pages 2, 7.
<b>Market Research Future — IP Law Services Market</b>	<a href="https://www.marketresearchfuture.com/reports/intellectual-property-ip-law-services-market-67079">https://www.marketresearchfuture.com/reports/intellectual-property-ip-law-services-market-67079</a>	\$20.5B global IP services TAM, ~3.5% CAGR to ~\$30B by 2035; used on pages 2, 7.
<b>LeanLaw — Structuring FTO Opinions, Capping Costs</b>	<a href="https://www.leanlaw.co/blog/how-to-structure-freedom-to-operate-fto-opinions-capping-costs-while-defining-clear-search-scope/">https://www.leanlaw.co/blog/how-to-structure-freedom-to-operate-fto-opinions-capping-costs-while-defining-clear-search-scope/</a>	\$10K-\$50K FTO opinion cost range, 4-6 week turnaround; used on pages 2, 3.
<b>Finnegan — When Is a Freedom-to-Operate Opinion Cost-Effective?</b>	<a href="https://www.finnegan.com/en/insights/articles/when-is-a-freedom-to-operate-opinion-cost-effective.html">https://www.finnegan.com/en/insights/articles/when-is-a-freedom-to-operate-opinion-cost-effective.html</a>	FTO cost-effectiveness framing; used on page 3.
<b>Dickinson Wright — Freedom to Operate Opinions</b>	<a href="https://www.dickinson-wright.com/news-alerts/arndt-freedom-to-operate-opinions">https://www.dickinson-wright.com/news-alerts/arndt-freedom-to-operate-opinions</a>	FTO practice guidance and cost range; used on page 3.
<b>USPTO Patents Dashboard</b>	<a href="https://www.uspto.gov/dashboard/patents/">https://www.uspto.gov/dashboard/patents/</a>	~325K US utility applications per year; ~7.6M US patents in force; used on page 3.
<b>PatentPC — Patent Statistics 2024</b>	<a href="https://patentpc.com/blog/patent-statistics-2024-what-the-numbers-tell-us">https://patentpc.com/blog/patent-statistics-2024-what-the-numbers-tell-us</a>	\$4.3B in 2024 US patent-litigation damages; defense cost range; used on page 3.

All forward-looking statements (Y1-Y3 pro forma, capture rates, ASPs) are Hive estimates and are not warranties of future performance. Cited market-research figures are aggregated from the public reports listed above; consult the underlying reports for full methodology.



## SECTION 14 · CLOSING

# Three audiences. Three asks.

If you are an attorney, an investor, or an enterprise IP leader, here is what we want from you next:

**ATTORNEYS****Mint your IP agent.**

Visit [thehiveryiq.com/ip/factory/](https://thehiveryiq.com/ip/factory/). 90 seconds to mint. **80%** revenue share. Your brand and USPTO reg on every receipt.

**INVESTORS****Eight-product roadmap. Bloomberg-class moat.**

Email [hive@thehiveryiq.com](mailto:hive@thehiveryiq.com). Y1 \$5M ARR, Y3 \$60M ARR target. \$12.32B SAM. NVIDIA Inception eligible.

**ENTERPRISE IP LEADERS****Continuous monitoring + portfolio + design-around as a single subscription.**

Email [hive@thehiveryiq.com](mailto:hive@thehiveryiq.com). Pilots open for semiconductor, robotics, medical devices, automotive, aerospace, industrial manufacturing, and AI infrastructure.

**Mint your IP agent. Keep 80%. Bloomberg Terminal for patent and innovation risk.**

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